

acm Transactions on Mathematical Software

Volume 11 • 1985

<i>Editor-in-Chief</i>	John R. Rice	
<i>Algorithms Editor</i>	Richard J. Hanson	
<i>Associate Editors</i>	David M. Allen	Roy E. Marsten
	Paul Boggs	John Reid
	Richard J. Fateman	Michael A. Saunders
	Fred N. Fritsch	Danny Sorenson
	Morven Gentleman	Hans J. Stetter
	Richard Jenks	Mark Wegmen
	Ravindran Kannan	

Published by the Association of Computing Machinery

Copyright 1986 Association of Computing Machinery
11 West 42 Street, New York, NY 10036

INFORMATION FOR AUTHORS

197

CONTRIBUTED PAPERS

ABRHAM, A., see HULL, T. E.	
AHRENS, J. H., Sequential Random Sampling	157
BARTELS, RICHARD H., Least Squares Fitting Using Orthogonal Multinomials	201
BOISVERT, RONALD F., GAMS: A Framework for the Management of Scientific Software	313
COLEMAN, THOMAS, Software for Estimating Sparse Hessian Matrices	363
CUYT, ANNIE A. M., Computational Implementation of the Multivariate Halley Method for Solving Nonlinear Systems of Equations	20
DAVENPORT, J. H., On the Parallel Risch Algorithm	356
DAVIDON, WILLIAM C., Evaluation of Step Directions in Optimization Algorithms	12
DEMBO, B. S., A Test Problem Generator for Large-Scale Unconstrained Optimization	97
DIETER, V., see AHRENS, J. H.	
ERICKSON, WILHELM S., Inverse Pairs of Test Matrices	302
GAN, C. T., A Note on Combination Generators	154
GARBOW, BURTON, see COLEMAN, THOMAS	
GUPTA, G. K., see TISCHER, P. E.	
HALL, GEORGE, Equilibrium States of Runge Kutta Schemes	289
HOUSTIS, E. N., Collocation Software for Second Order Elliptic Partial Differential Equations	379
HOWE, SALLY E., see BOISVERT, RONALD F.	
HULL, T. E., Properly Rounded Variable Precision Square Root	229
JEZIORANSKI, JOHN J., see BARTELS, RICHARD H.	
JOHNSSON, LENNART S., Solving Narrow Banded Systems on Ensemble Architectures	271
KAHANER, DAVID K., see BOISVERT, RONALD F.	
KOONTZ, JOHN E., see SCHNABEL, ROBERT B.	
LE, D., An Efficient Derivative-Free Method for Solving Nonlinear Equations	250
LIU, JOSEPH W. H., Modification of the Minimum-Degree Algorithm by Multiple Elimination	141
MITCHELL, W. F., see HOUSTIS, E. N.	
MORÉ, JORGÉ, see COLEMAN, THOMAS	
NOCEDAL, JORGE, see DAVIDON, WILLIAM C.	

RALL, L. B., see CUYT, ANNIE A. M.	
RICE, J. R., see HOUSTIS, E. N.	
SCHNABEL, ROBERT B., A Modular System of Algorithms for Unconstrained Minimization	419
STEIHAUG, T., see DEMBO, R. S.	
STEWART, G. W., A Note on Complex Division	238
TISCHER, P. E., An Evaluation of Some Cyclic Linear Multistep Formulas for Stiff ODEs	263
TOMLIN, J. A., Integration of a Primal Simplex Network Algorithm with a Large-Scale Mathematical Programming System	7
TRAGER, B. M., see DAVENPORT, J. H.	
VITTER, JEFFREY SCOTT, Random Sampling with a Reservoir	37
WEISS, BARRY E., see SCHNABEL, ROBERT B.	
WELCH, J. S., see TOMLIN, J. A.	

ALGORITHMS

APPLEBAUM, LEE, see BOWNDS, JOHN M.	
ATKINSON, KENDALL E., Algorithm 629. An Integral Equation Program for Laplace's Equation in Three Dimensions	85
BARTELS, RICHARD H., Algorithm 634. CONST and EVAL: Routines for Fitting Multinomials in a Least Squares Sense	218
BOWNDS, JOHN M., Algorithm 627. A FORTRAN Subroutine for Solving Volterra Integral Equations	58
BUCHBERGER, B., see WINKLER, F.	
BUCKLEY, A., Algorithm 630. BBVSCG—A Variable Storage Algorithm for Function Minimization	103
COLEMAN, THOMAS F., Algorithm 636. FORTRAN Subroutines for Estimating Sparse Hessian Matrices	378
DAVIS, G. J., see WARD, R. C.	
ER, M. C., Remark on Algorithm 246	444
GARBOW, BURTON S., See COLEMAN, THOMAS F.	
HAMILTON, DENNIS E., Remark on Algorithm 620	305
HOUSTIS, E. N., Algorithm 637. INTCOL and HERMCOL: Collocation on Rectangular Domains with Bicubic Hermite Polynomials	413
HOUSTIS, E. N., Algorithm 638. GENCOL: Collocation on General Domains with Bicubic Hermite Polynomials	416
KANE, V. E., see WARD, R. C.	
LAWRIE, D. H., Corrections to "The Computation and Communication Complexity of a Parallel Banded System Solver	188
LENIR, A., see BUCKLEY, A.	
LICHTENBERGER, F., see WINKLER, F.	
MARTELLO, SILVANO, Algorithm 632. A Program for the 0-1 Multiple Knapsack Problem	135
MITCHELL, W. F., see HOUSTIS, E. N.	
MORÉ, JORGE J., see COLEMAN, BURTON S.	
NORTON, VICTOR, Algorithm 631. Finding a Bracketed Zero by Larkin's Method of Rational Interpolation	120
NOVOTNY, MILAN, Remark on Algorithm 30	183
PREUSSER, ALBRECHT, Remark on Algorithm 526	186
RICE, J. R., see HOUSTIS, E. N.	
ROLLETSCHKE, H., see WINKLER, F.	
SAMEH, A. H., see LAWRIE, D. H.	
STREIT, ROY L., Algorithm 635. An Algorithm for the solution of Systems of Complex Linear Equations in the \mathcal{L}_2 Norm with Constraints on the Unknowns	242
WARD, R. C., Algorithm 633. An Algorithm for Linear Dependency Analysis of Multivariate Data	170
WINKLER, F., Algorithm 628. An Algorithm for Constructing Canonical Bases of Polynomial Ideals	66

